

GORE® STA-PURE Series PCS

PTFE-reinforced silicone tubing

Ideal for:
Demanding applications including tangential flow filtration

STA-PURE PCS pump tubing provides long term performance with repeatable accuracy, vital in pharmaceuticals and other high technology industries.

- Pressure rated up to 7bar (100 psi)
- Longest available tube life
- STA-PURE PCS's bore is three times smoother than thermoplastic elastomer tubing, with no grooves or cracking developing as flexing continues
- Spallation virtually eliminated, leaving high-value duty fluids uncontaminated



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Unbeatable value for life

STA-PURE PCS has a unique composite construction of silicone in a PTFE lattice, giving it superior burst resistance up to 7bar (100psi) and 18 times longer life than silicone tubing. It produces virtually no spallation, is USP Class VI approved and is non-toxic, making it ideal for a wide range of biopharmaceutical applications.

Widely used for ultra-pure applications such as ultra-filtration, live cell transfer, fermentation and bioreactor feed.

As well as the continuous tubing elements operating up to 2bar pressure, STA-PURE PCS is available as LoadSure elements giving a pressure capability up to 4bar and even 7bar in two elements.

STA-PURE PCS pump tubing sizes available						
Bore		Wall		No	Element length	Part number
mm	inch	mm	inch		mm	
1.6	1/16	1.6	1/16	14	305	961.0016.016
3.2	1/8	1.6	1/16	16	305	961.0032.016
4.8	3/16	1.6	1/16	25	305	961.0048.016
6.4	1/4	1.6	1/16	17	305	961.0064.016
8.0	5/16	1.6	1/16	18	305	961.0080.016
1.6	1/16	1.6	1/16	14	355	961.0016.L16
3.2	1/8	1.6	1/16	16	355	961.0032.L16
4.8	3/16	1.6	1/16	25	355	961.0048.L16
6.4	1/4	1.6	1/16	17	355	961.0064.L16
8.0	5/16	1.6	1/16	18	355	961.0080.L16
1.6	1/16	2.4	3/32	119	355	961.0016.024
3.2	1/8	2.4	3/32	120	355	961.0032.024
4.8	3/16	2.4	3/32	15	355	961.0048.024
6.4	1/4	2.4	3/32	24	355	961.0064.024
8.0	5/16	2.4	3/32	121	355	961.0080.024
9.6	3/8	2.4	3/32	122	610	961.0096.024
6.4	1/4	3.2	1/8	26	610	961.0064.032
9.6	3/8	3.2	1/8	73	610	961.0096.032
12.7	1/2	3.2	1/8	82	610	961.0127.032
15.9	5/8	3.2	1/8	184	610	961.0159.032
9.6	3/8	4.8	3/16	193	610	961.0096.048
12.7	1/2	4.8	3/16	88	610	961.0127.048
15.9	5/8	4.8	3/16	189	610	961.0159.048
19.0	3/4	4.8	3/16	191	610	961.0190.048
25.4	1	4.8	3/16	92	610	961.0254.048

STA-PURE PCS	Characteristics
Material	ePTFE and platinum-cured silicone composite
Colour/transparency	Off-white/opaque
Spallation	Very low
Life/hours	313/314 pumpheads - 10,000 hrs 520R pumpheads - 10,000 hrs 620R pumpheads - 6000 hrs
Certification	USP Class VI
Sterilisation methods	Autoclave, CIP, SIP: ask Watson-Marlow
Operating temperature	-20C to 80C
Hardness, shore A (5sec)	85±10
UV resistance	Excellent
Gas permeability O ₂ cm ³ .cm.10 ⁻⁶ /cm ² .s.cmHg	350
Water absorption	Low

ASTM methods Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B, Ultimate tensile strength, Elongation at break, Tensile stress at 100% elongation; ASTM D 412